



TEST PIT LOG

TEST PIT
NO.:

PAGE: 1 OF 2

DATE: 2/19/08

TtP-1

PROJECT INFORMATION

PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION

PROJECT NO.: 181750

CLIENT: S. M. STOLLER

OWNER: DOE

LOCATION: ROCKY FLATS

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TEST PIT LOCATION

SEE FIGURE 2

FIELD INFORMATION

DATE & TIME ARRIVED: 2/19/08 - 2:10PM

TEST PIT LOGGED BY: JOE REED

VISITORS: NONE

WEATHER: SUNNY, 50°

EXCAVATION INFORMATION

EXCAVATION COMPANY: TP ENTERPRISES

START TIME: 2:30PM

TEST PIT DEPTH: 12' TEST PIT DIA.: 20' X 2'-5' X 12'

EXCAVATION METHOD: TRACK HOE

SAMPLING METHOD: BULK

TIME EXCAVATION COMPLETE: 3:30PM

TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: 3:30PM COMPLETE TIME: 4:00PM

INSTRUMENTATION: NONE BACKFILL: CUTTINGS

GROUNDWATER CONDITIONS

NO GROUNDWATER WAS ENCOUNTERED AT THE TIME OF EXCAVATION.

FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: ... TIME LEFT SITE: ...

NOTES: 15' EAST OF ORIGINAL STAKE.

TEST PIT LOG

**TEST PIT
NO.:**

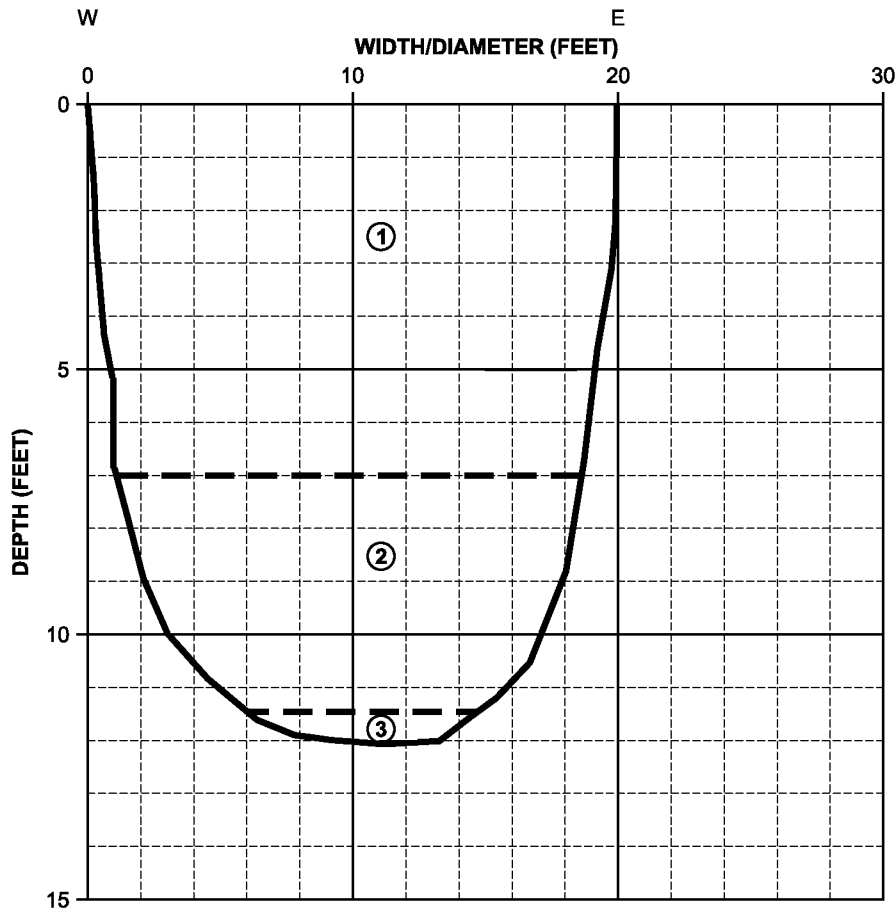
PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION **PAGE:** 2 OF 2

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PROJECT NO.: 181750

DATE: 2/19/08

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[illegible]

SOIL TYPE	SOIL DEPTH	SOIL DESCRIPTION AND EXCAVATION NOTES
①	0 - 7'	SANDY CLAY/CLAYEY SAND SLIGHTLY MOIST TO MOIST, YELLOWISH BROWN (10YR 5/6), FINE TO COARSE SAND GRAVEL COBBLES BOULDERS, MEDIUM STIFF TO LOOSE.
②	7' - 11.5'	CLAY SLIGHTLY MOIST, LIGHT GRAY (10YR 7/2) AND YELLOW (10YR 7/6), VERY STIFF, TRACE ROOTS (NATIVE?).
③	11.5' - 12'	WEATHERED CLAYSTONE SLIGHTLY MOIST, LIGHT YELLOWISH BROWN (10YR 6/4), SOME YELLOW (10YR 7/6), MEDIUM STIFF TO LOOSE.

NOTES: NORTH SIDE CAVES IN.

SOIL DEPTHS WERE MEASURED AT MIDPOINT OF TRENCH.



TEST PIT LOG

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TtP-2

PROJECT INFORMATION

PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION

PROJECT NO.: 181750

CLIENT: S. M. STOLLER

OWNER: DOE

LOCATION: ROCKY FLATS

...

TEST PIT LOCATION

SEE FIGURE 2

FIELD INFORMATION

DATE & TIME ARRIVED: 2/20/08 - 7:40AM

TEST PIT LOGGED BY: JOE REED

VISITORS: NONE

WEATHER: PARTLY CLOUDY, 30°

EXCAVATION INFORMATION

EXCAVATION COMPANY: TP ENTERPRISES

START TIME: 8:00AM

TEST PIT DEPTH: 12' TEST PIT DIA.: 20' X 2' X 12'

EXCAVATION METHOD: TRACK HOE

SAMPLING METHOD: BULK

TIME EXCAVATION COMPLETE: 8:45AM

TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: 8:45AM COMPLETE TIME: 9:45AM

INSTRUMENTATION: NONE BACKFILL: CUTTINGS

GROUNDWATER CONDITIONS

NO GROUNDWATER WAS ENCOUNTERED AT THE TIME OF EXCAVATION.

FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: 9:45AM TIME LEFT SITE: 9:45AM

NOTES: _____



TEST PIT LOG

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DATE: 2/19/08

TtP-3

PROJECT INFORMATION

PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION

PROJECT NO.: 181750

CLIENT: S. M. STOLLER

OWNER: DOE

LOCATION: ROCKY FLATS

...

TEST PIT LOCATION

SEE FIGURE 2

FIELD INFORMATION

DATE & TIME ARRIVED: 2/19/08 - 10:55AM

TEST PIT LOGGED BY: JOE REED

VISITORS: NONE

WEATHER: SUNNY, 40°

EXCAVATION INFORMATION

EXCAVATION COMPANY: TP ENTERPRISES

START TIME: 12:00PM

TEST PIT DEPTH: 12' TEST PIT DIA.: 20' X 2'-4' X 12'

EXCAVATION METHOD: TRACK HOE

SAMPLING METHOD: BULK

TIME EXCAVATION COMPLETE: 1:05PM

TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: 1:05PM COMPLETE TIME: 2:00PM

INSTRUMENTATION: NONE BACKFILL: CUTTINGS

GROUNDWATER CONDITIONS

NO GROUNDWATER WAS ENCOUNTERED AT THE TIME OF EXCAVATION.

FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: 2:00PM TIME LEFT SITE: 2:00PM

NOTES: _____



TEST PIT LOG

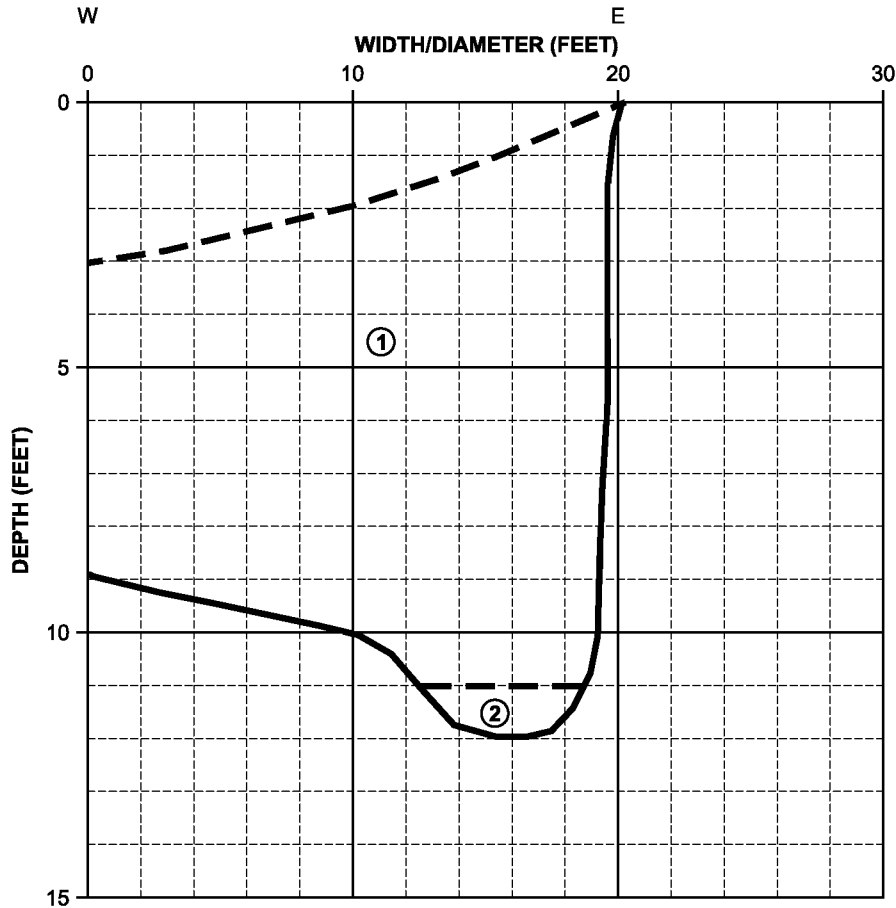
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PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION PAGE: 2 OF 2

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DEPTH	SAMPLE I.D.	SAMPLE TYPE
8'	8'	BULK
11.5'	12'	BULK

SOIL TYPE	SOIL DEPTH	SOIL DESCRIPTION AND EXCAVATION NOTES
①	0 - 11'	SILTY CLAY SLIGHTLY MOIST TO MOIST, LIGHT BROWNISH GRAY (10YR 6/2) AND YELLOWISH BROWN (10YR 5/4), STIFF TO VERY STIFF, TRACE FINE TO COARSE SAND, NO GRAVEL COBBLES OR BOULDERS.
②	11' - 12'	WEATHERED CLAYSTONE SLIGHTLY MOIST TO DRY, GRAYISH BROWN (10YR 5/2), HARD.

NOTES: CAVING NORTH SIDE OF PIT.

SOIL DEPTHS WERE MEASURED AT MIDPOINT OF TRENCH.



TEST PIT LOG

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TtP-4

PROJECT INFORMATION

PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION

PROJECT NO.: 181750

CLIENT: S. M. STOLLER

OWNER: DOE

LOCATION: ROCKY FLATS

...

TEST PIT LOCATION

SEE FIGURE 2

FIELD INFORMATION

DATE & TIME ARRIVED: 2/19/08 - 8:20AM

TEST PIT LOGGED BY: JOE REED

VISITORS: NONE

WEATHER: SUNNY, 40°

EXCAVATION INFORMATION

EXCAVATION COMPANY: TP ENTERPRISES

START TIME: 8:35AM

TEST PIT DEPTH: 12' TEST PIT DIA.: 20' X 2' - 4' X 12'

EXCAVATION METHOD: TRACK HOE

SAMPLING METHOD: BULK

TIME EXCAVATION COMPLETE: 9:55AM

TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: 9:55AM COMPLETE TIME: 11:00AM

INSTRUMENTATION: NONE BACKFILL: CUTTINGS

GROUNDWATER CONDITIONS

GROUNDWATER WAS ENCOUNTERED AT 6' AND 11'.

FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: 11:00AM TIME LEFT SITE: 11:00AM

NOTES: LOCATION 20 FT. NW FROM ORIGINAL LOCATION



TEST PIT LOG

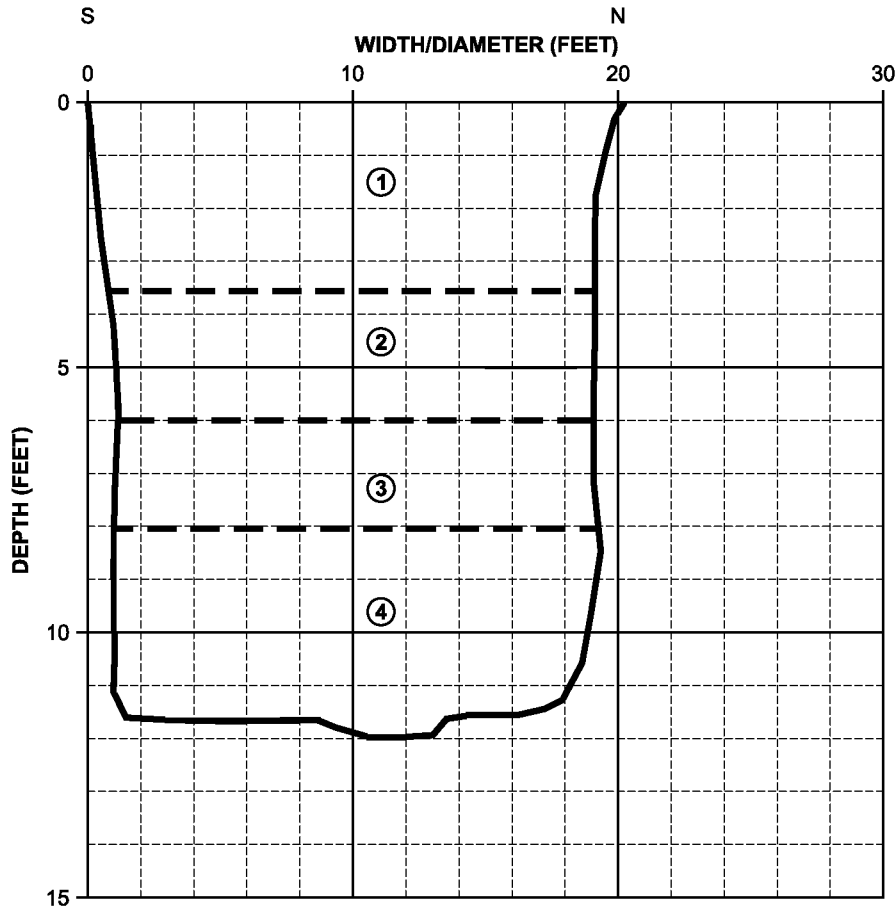
TEST PIT
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PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION PAGE: 2 OF 2

PROJECT NO.: 181750

DATE: 2/19/08

TtP-4



DEPTH	SAMPLE I.D.	SAMPLE TYPE
4'	4'	BULK
6'	6'	BULK
10' - 11'	10' - 11'	BULK

SOIL TYPE	SOIL DEPTH	SOIL DESCRIPTION AND EXCAVATION NOTES
①	0 - 3.5'	SILTY SANDY CLAY FILL MOIST TO SLIGHTLY MOIST, YELLOWISH BROWN (10YR 5/6) WITH MINOR LIGHT BROWNISH GRAY (10YR 6/2), MEDIUM STIFF TO STIFF, FINE TO COARSE SAND AND GRAVEL, SOME COBBLES AND BOULDERS, ROOTS, TRACE SAND LENS.
②	3.5' - 6'	CLAY SLIGHTLY MOIST TO MOIST, GRAYISH BROWN (10YR 5/2), STIFF TO VERY STIFF, TRACE FINE TO COARSE SAND.
③	6' - 8'	SANDY SILTY CLAY SLIGHTLY MOIST TO WET, DARK GRAY (10YR 4/1), MEDIUM STIFF TO VERY STIFF, FINE TO COARSE SAND, ROOTS (LOOKS LIKE TOPSOIL).
④	8' - 12'	SILTY CLAY MOIST TO WET, GRAY (10YR 6/1) AND YELLOWISH BROWN (10YR 5/6), STIFF TO VERY STIFF, TRACE FINE TO COARSE SAND, (WEATHERED BEDROCK?).

NOTES: WATER INFLOW AT 6' (TRICKLE) AND AT 11' - MINOR FLOW. SMALL METAL PIPE AT 8'; PIT CAVING ON EAST SIDE.

SOIL DEPTHS WERE MEASURED AT MIDPOINT OF TRENCH.



TEST PIT LOG

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TtP-5

PROJECT INFORMATION

PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION

PROJECT NO.: 181750

CLIENT: S. M. STOLLER

OWNER: DOE

LOCATION: ROCKY FLATS

...

TEST PIT LOCATION

SEE FIGURE 2

FIELD INFORMATION

DATE & TIME ARRIVED: 2/13/08 - 12:20PM

TEST PIT LOGGED BY: JOE REED

VISITORS: NONE

WEATHER: 50°, SUNNY, WINDY

EXCAVATION INFORMATION

EXCAVATION COMPANY: TP ENTERPRISES

START TIME: 12:40PM

TEST PIT DEPTH: 12' TEST PIT DIA.: 20' X 12' X 2.5'

EXCAVATION METHOD: TRACK HOE

SAMPLING METHOD: BULK

TIME EXCAVATION COMPLETE: 1:55PM

TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: 1:55PM COMPLETE TIME: 3:00PM

INSTRUMENTATION: NONE BACKFILL: CUTTINGS

GROUNDWATER CONDITIONS

NO GROUNDWATER WAS ENCOUNTERED AT THE TIME OF EXCAVATION.

FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: 3:00PM TIME LEFT SITE: 3:00PM

NOTES: _____

TEST PIT LOG

**TEST PIT
NO.:**

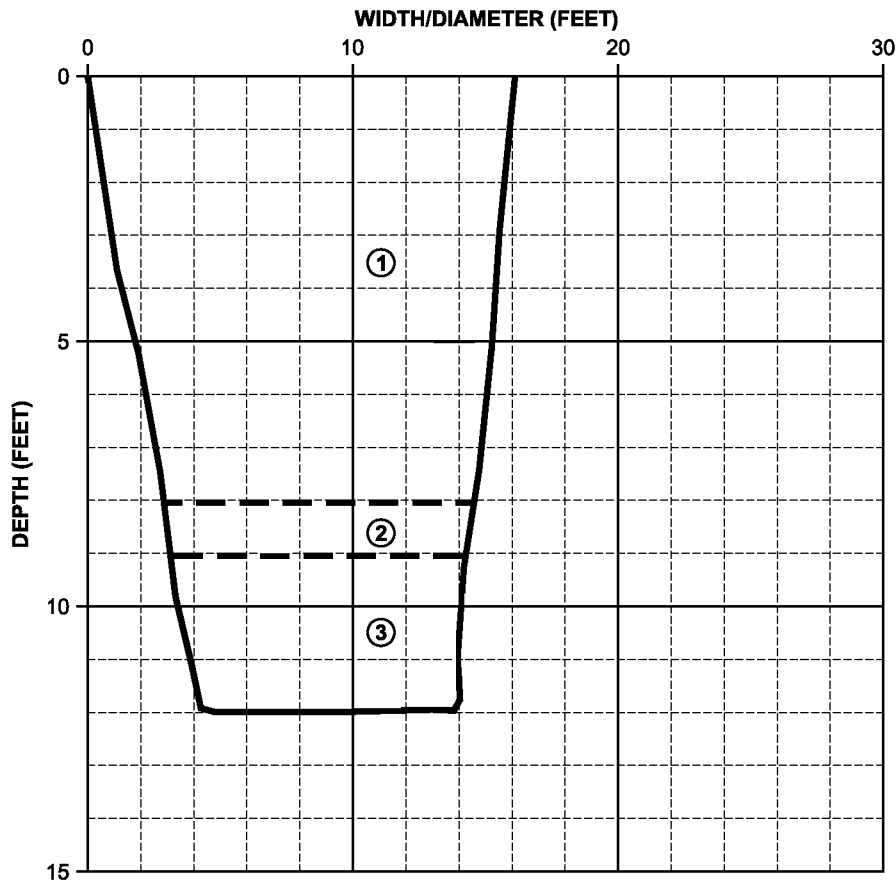
PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION **PAGE:** 2 OF 2

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PROJECT NO.: 181750

DATE: 2/13/08

TtP-5

[illegible]

SOIL TYPE	SOIL DEPTH	SOIL DESCRIPTION AND EXCAVATION NOTES
①	0 - 8'	SANDY CLAY/CLAYEY SAND MOIST TO WET, LIGHT YELLOWISH BROWN (10YR 6/4), STIFF TO VERY STIFF, FINE TO COARSE SAND, COBBLES, ROOTS, COBBLES AND BOULDERS INCREASE WITH DEPTH, MOISTURE DECREASES BY 5', CLAYEY SAND, MOIST
②	8' - 9'	SILTY SANDY CLAY (TOPSOIL?) MOIST, VERY DARK GRAYISH BROWN (10YR 3/2) AND GRAY (10YR 5/1), MEDIUM STIFF TO STIFF, FINE COARSE SAND, FREQUENT ROOTS.
③	9' - 12'	CLAY MOIST, LIGHT GRAY (10YR 7/1) AND BROWN (10YR 4/3), MOTTLED WITH LIGHT GRAY, STIFF TO VERY STIFF, TRACE SAND AND GRAVEL, TRACE ROOTS, COBBLES AND BOULDERS.

NOTES: WATER PONDED IN DITCH, MATERIAL LOOSE, SIDE CAVING.

SOIL DEPTHS WERE MEASURED AT MIDPOINT OF TRENCH.



TEST PIT LOG

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TtP-6

PROJECT INFORMATION

PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION

PROJECT NO.: 181750

CLIENT: S. M. STOLLER

OWNER: DOE

LOCATION: ROCKY FLATS

...

TEST PIT LOCATION

SEE FIGURE 2

FIELD INFORMATION

DATE & TIME ARRIVED: 2/20/08 - 9:55AM

TEST PIT LOGGED BY: JOE REED

VISITORS: NONE

WEATHER: MOSTLY CLOUDY, 40°

EXCAVATION INFORMATION

EXCAVATION COMPANY: TP ENTERPRISES

START TIME: 10:05AM

TEST PIT DEPTH: 14' TEST PIT DIA.: 20' X 2' X 14'

EXCAVATION METHOD: TRACK HOE

SAMPLING METHOD: BULK

TIME EXCAVATION COMPLETE: 11:10AM

TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: 11:10AM COMPLETE TIME: 12:00PM

INSTRUMENTATION: NONE BACKFILL: CUTTINGS

GROUNDWATER CONDITIONS

NO GROUNDWATER WAS ENCOUNTERED AT THE TIME OF EXCAVATION.

FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: 12:00PM TIME LEFT SITE: 12:00PM

NOTES: _____

TEST PIT LOG

**TEST PIT
NO.:**

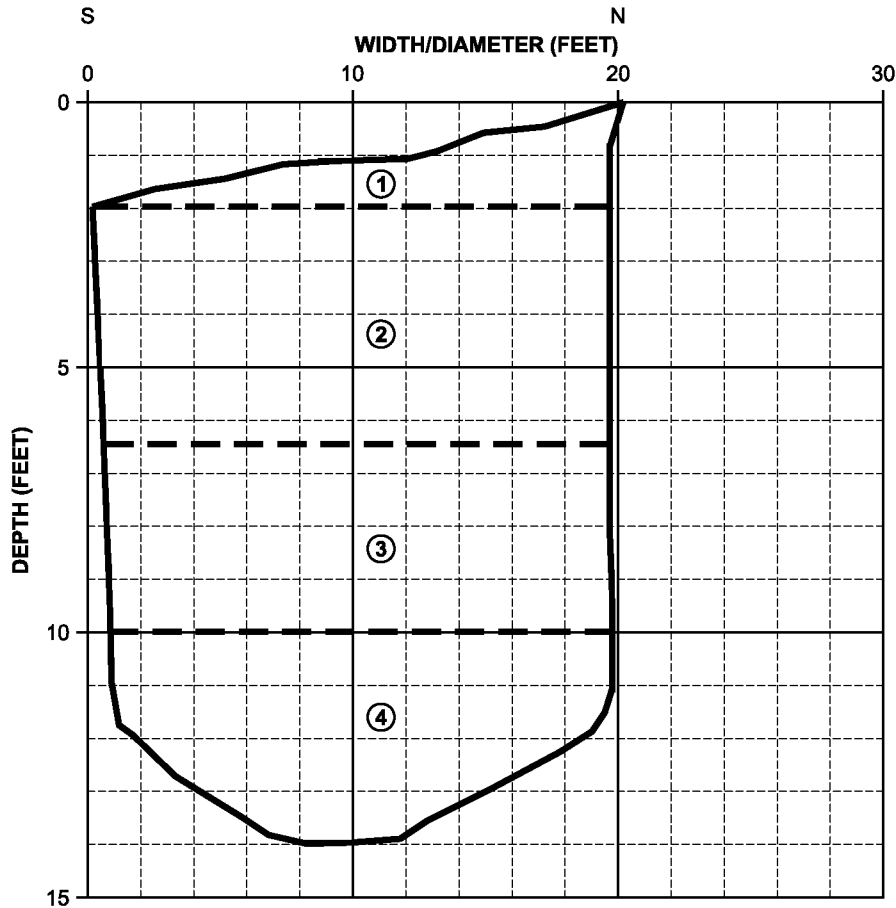
PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION **PAGE:** 2 OF 2

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PROJECT NO.: 181750

DATE: 2/20/08

TtP-6

[illegible]

SOIL TYPE	SOIL DEPTH	SOIL DESCRIPTION AND EXCAVATION NOTES
①	0 - 2'	SANDY CLAY/CLAYEY SAND FILL MOIST, YELLOWISH RED (5YR 5/6), STIFF, FINE TO COARSE SAND, GRAVEL, COBBLES, TRACE BOULDERS.
②	2' - 6.5'	SANDY CLAY SLIGHTLY MOIST TO MOIST, DARK GRAYISH BROWN (10YR 4/2), STIFF TO VERY STIFF, TRACE FINE TO COARSE SAND GRAVEL, TRACE COBBLES, TRACE ASPHALT.
③	6.5' - 10'	SANDY CLAY SLIGHTLY MOIST TO MOIST, BROWNISH YELLOW (10YR 6/6), MEDIUM STIFF TO STIFF, TRACE FINE TO COARSE SAND, TRACE GRAVEL (NATIVE)?.
④	10' - 14'	CLAY MOIST, LIGHT BROWNISH GRAY (10YR 6/2) WITH SOME BROWNISH YELLOW (10YR 6/6), MEDIUM STIFF TO STIFF, TRACE FINE TO COARSE SAND (NATIVE)?.

NOTES: SOIL DEPTHS WERE MEASURED AT MIDPOINT OF TRENCH.

SOIL DEPTHS WERE MEASURED AT MIDPOINT OF TRENCH.



TEST PIT LOG

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TtP-7

PROJECT INFORMATION

PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION

PROJECT NO.: 181750

CLIENT: S. M. STOLLER

OWNER: DOE

LOCATION: ROCKY FLATS

...

TEST PIT LOCATION

SEE FIGURE 2

FIELD INFORMATION

DATE & TIME ARRIVED: 2/13/08 - 8:00AM

TEST PIT LOGGED BY: JOE REED

VISITORS: NONE

WEATHER: SUNNY, 30°

EXCAVATION INFORMATION

EXCAVATION COMPANY: TP ENTERPRISES

START TIME: 8:30AM

TEST PIT DEPTH: 11' TEST PIT DIA.: 19' X 2' X 11'

EXCAVATION METHOD: TRACK HOE

SAMPLING METHOD: BULK

TIME EXCAVATION COMPLETE: 9:40AM

TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: 11:10AM COMPLETE TIME: 11:30AM

INSTRUMENTATION: NONE BACKFILL: CUTTINGS

GROUNDWATER CONDITIONS

WATER INFLOW AT 8' - 9'.

FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: 11:30AM TIME LEFT SITE: 11:30AM

NOTES: _____



TEST PIT LOG

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TtP-8

PROJECT INFORMATION

PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION

PROJECT NO.: 181750

CLIENT: S. M. STOLLER

OWNER: DOE

LOCATION: ROCKY FLATS

...

TEST PIT LOCATION

SEE FIGURE 2

FIELD INFORMATION

DATE & TIME ARRIVED: 2/12/08 - 9:45AM

TEST PIT LOGGED BY: JOE REED

VISITORS: NONE

WEATHER: ~30° F, CLOUDY

EXCAVATION INFORMATION

EXCAVATION COMPANY: TP ENTERPRISES

START TIME: 10:55AM

TEST PIT DEPTH: 13' TEST PIT DIA.: 20' X 2' X 10'

EXCAVATION METHOD: TRACK HOE

SAMPLING METHOD: BULK

TIME EXCAVATION COMPLETE: 12:35PM

TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: 1:15PM COMPLETE TIME: 2:00PM

INSTRUMENTATION: NONE BACKFILL: CUTTINGS

GROUNDWATER CONDITIONS

NO GROUNDWATER WAS ENCOUNTERED AT THE TIME OF EXCAVATION.

FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: 2:00PM TIME LEFT SITE: 2:00PM

NOTES: _____

TEST PIT LOG

**TEST PIT
NO.:**

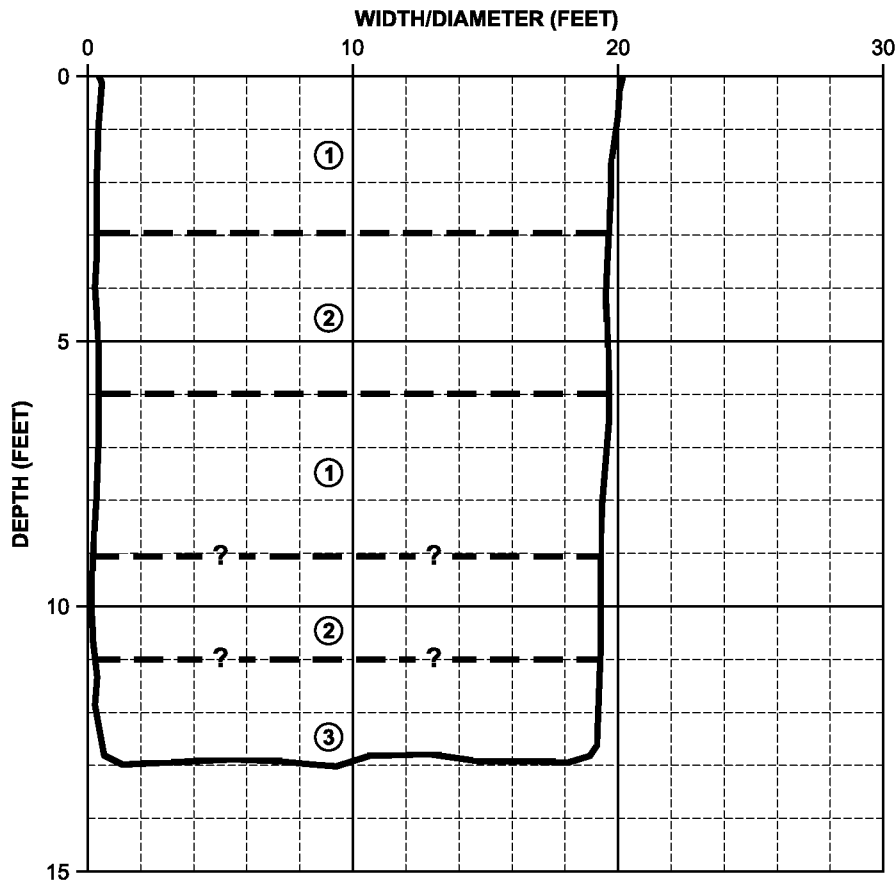
PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION **PAGE:** 2 OF 2

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PROJECT NO.: 181750

DATE: 2/12/08

TtP-8

[illegible]

SOIL TYPE	SOIL DEPTH	SOIL DESCRIPTION AND EXCAVATION NOTES
①	0 - 3' 6' - 9'	FILL CLAYEY SAND/SANDY CLAY (YELLOWISH BROWN) AND SANDY CLAY (BROWN), MOIST TO SLIGHTLY MOIST, BROWN (10YR 5/6) AND YELLOWISH BROWN (10YR 5/6), CLAYEY SAND/SANDY CLAY, MORE SAND, GRAVEL, AND COBBLES THAN SANDY CLAY, STIFF, SANDY CLAY, VERY STIFF, TRACE OF SAND, GRAVEL AND COBBLES.
②	3' - 6' 9' - 11'	FILL SANDY CLAY, SLIGHTLY MOIST TO MOIST, LIGHT BROWNISH GRAY (10YR 6/2) AND BROWN (10YR 5/6), VERY STIFF, TRACE SAND.
③	11' - 13'	HIGHLY WEATHERED BEDROCK CLAYSTONE, SLIGHTLY MOIST, YELLOWISH BROWN (10YR 5/6) AND LIGHT GREENISH GRAY (GLEI 7/1), TRACE FINE SAND, TRACE OF HARD GRAVEL SIZED CLAYSTONE FRAGMENTS, TRACE ROOTS.

NOTES: *CONTACTS BETWEEN MATERIALS 1 & 2 ARE GRADATIONAL AND APPROXIMATE.*

CONTACT BETWEEN MATERIAL 2 & 3 APPEARS VARIABLE ALONG TRENCH LENGTH.

SOIL DEPTHS WERE MEASURED AT MIDPOINT OF TRENCH.



TEST PIT LOG

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PROJECT INFORMATION

PROJECT: ROCKY FLATS ORIGINAL LANDFILL GEOTECHNICAL INVESTIGATION

PROJECT NO.: 181750

CLIENT: S. M. STOLLER

OWNER: DOE

LOCATION: ROCKY FLATS

...

TEST PIT LOCATION

SEE FIGURE 2

FIELD INFORMATION

DATE & TIME ARRIVED: 2/12/08 - 2:30PM

TEST PIT LOGGED BY: JOE REED

VISITORS: NONE

WEATHER: CLOUDY, 30°

EXCAVATION INFORMATION

EXCAVATION COMPANY: TP ENTERPRISES

START TIME: 2:30PM

TEST PIT DEPTH: 3' TEST PIT DIA.: 14' X 2' X (1.5'-3')

EXCAVATION METHOD: TRACK HOE

SAMPLING METHOD: BULK

TIME EXCAVATION COMPLETE: 3:20PM

TEST PIT COMPLETION / ABANDONMENT INFORMATION

START TIME: 3:20PM COMPLETE TIME: 3:40PM

INSTRUMENTATION: NONE BACKFILL: CUTTINGS

GROUNDWATER CONDITIONS

NO GROUNDWATER WAS ENCOUNTERED AT THE TIME OF EXCAVATION.

FOLLOWING FIELD WORK

TIME OF CLEAN-UP COMPLETE: 3:40PM TIME LEFT SITE: 3:40PM

NOTES: LOCATION MOVED TO TOP OF BUTTRESS TO AVOID SEEP AREA (APPROX. 100' NORTH).

TtP-9

SOIL DEPTHS WERE MEASURED AT MIDPOINT OF TRENCH.